

Environmental Cleanup Program Former Naval Station Treasure Island Fact Sheet

August 2006

www.bracpmo.navy.mil/bracbases/california/treasure island

Volume 2

GENERAL HISTORY OF THE BASE

Former Naval Station Treasure Island (NAVSTA TI) is located in the San Francisco Bay (Bay), midway between San Francisco and Oakland, California. The Naval Station consists of two contiguous islands: Treasure Island (TI), which is about 403 acres, and Yerba Buena Island (YBI), which is about 147 acres. TI is a manmade island constructed of materials dredged from the Bay, and YBI is a natural island. TI was built in 1936 and 1937 and was used initially for the Golden Gate International Exposition in 1939. TI was leased to the US Department of the Navy (Navy) in 1941, and the Navy gained title to TI in 1943.

The Navy operated the Naval Station for various activities including the Naval Technical Training Center; waterfront facilities; troop and family housing; personnel support; a Navy brig; and a Navy and Marine Corps museum. In July 1993, the Base Realignment and Closure (BRAC) Commission recommended closure of Naval Station Treasure Island with relocation of the Naval Reserve Center and the Naval Technical Training Center.

Naval operations ceased on September 30, 1997. The BRAC Program Management Office assumes caretaker status until the property is transferred. A portion of Treasure Island was transferred to the U.S. Department of Labor for a Job Corps Center, and the Federal Highway Administration (FHWA) transferred a portion of Yerba Buena Island to the State of California for the San Francisco-Oakland Bay Bridge. The Treasure Island Development Authority (TIDA) has operated the Base since closure under agreement with the Navy, and leases portions of the Base for housing and other activities.



Entrance to Naval Station Treasure Island



A brief summary of environmental cleanup programs is presented below.

Installation Restoration Program Overview

The Department of Defense (DoD) developed the Installation Restoration (IR) Program in 1981 to comply with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and other federal and state environmental regulatory requirements. The IR Program is specific to military facilities and its purpose is twofold: (1) to identify, investigate, and clean up or control releases of hazardous substances, and (2) to reduce the risk to human health and the environment in a cost-effective manner.

NAVSTA TI's IR Program consists of two programs: the CERCLA Program and the Petroleum Program. Environmental investigations and cleanup began on NAVSTA TI in the mid-1980s and continues today. In 1992, the Navy entered into a Federal Facilities Site Remediation Agreement (FFSRA) with the State of California Environmental Protection Agency (Cal EPA). The FFSRA establishes the Navy's and the State's roles and responsibilities and sets a cleanup schedule for each IR site.

The initial facilitywide Preliminary Assessment/Site Investigation (PA/SI) was conducted in 1987 to identify areas on TI and YBI that required further investigation due to possible contamination in soil, sediment, and/or groundwater. To date, the Navy has identified 33 IR sites on TI and YBI including a former fire training area, a landfill, a former dry cleaning facility, an old bunker area, fuel farms, and a service station (See site map). Contamination in these areas is largely the result of releases of petroleum products from fueling operation/storage areas, training, and storage/disposal of hazardous waste materials (See Site Descriptions Table for site descriptions, contaminants of potential concern, and current site status).

CERCLA PROGRAM

In response to environmental impacts that resulted from past hazardous waste handling and disposal practices, Congress directed the U.S. Environmental Protection Agency (EPA) to develop a program to manage and control past disposal sites. This program is outlined in the 1980 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the 1986 Superfund Amendments and Reauthorization Act (SARA), and is commonly referred to as Superfund. These laws established a phased process for investigating and cleaning up hazardous waste disposal and spill sites nationwide.

CERCLA requires that a remedial action or removal action process be implemented for each site. The site-specific process is selected by evaluating the advantages and disadvantages of each alternative and selecting the one that best protects human health and the environment in a cost-effective manner. The Navy has identified a total of 23 CERCLA sites on TI and YBI. Seven sites have been closed, two sites had interim removal actions conducted and these two sites, plus the remaining 14 CERCLA sites, are continuing through the remedial action process.

PETROLEUM PROGRAM

In addition to the CERCLA Program, the IR Program includes the investigation and remediation of sites with petroleum contamination from historic uses such as fueling stations, maintenance areas, a firefighter training area, and an auto hobby shop. Petroleum contamination at NAVSTA TI is primarily from fuel lines and underground storage tanks (USTs). The Petroleum Program has identified 10 petroleum sites along with numerous USTs and fuel lines throughout TI and YBI. The Petroleum Program has achieved closure at eight of the ten petroleum sites. The Navy is currently working with the Water Board to achieve closure at the final two.

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A brief summary of recent environmental investigations and cleanup activities conducted at several of the IR sites is presented below.

Investigations and Interim Removal Actions at Site 12 – Old Bunker Area (TI Housing Area)

In 1999, the Navy completed an interim removal action for lead contaminated soil at Site 12 Buildings 1207/1209 on Bayside Drive and at Building 1133 on Mason Court. In 2000, the Navy conducted a pilot investigation which included sampling of debris, soil gas sampling, and additional soil sampling at the Site 12 solid waste disposal areas. Also in 2000, polychlorinated biphenyl (PCB) and polycyclic aromatic hydrocarbon (PAH) contaminated soil was removed from Halyburton, Bigelow, and Flounder Court locations. In 2001, a removal action for PCB and PAH contaminated soil was completed at portions of Buildings 1246, 1248, 1252, 1254 and 1413. During 2002, the Navy evaluated cleanup alternatives in an Engineering Evaluation/Cost Analysis (EE/CA), and held public information sessions and a public meeting. In 2003, a site wide soil investigation of the common areas was performed to characterize and delineate contamination at Site 12. Results were published in a September 2004 Final Data Summary Report, Site 12 Housing Area, Sitewide Investigation. The report is located in the Information Repository at Building 1 on Treasure Island. An Engineering Evaluation/Cost Analysis is currently being prepared for portions of Site 12.

Site 13 Proposed Plan – Offshore Sediments

A Proposed Plan for Site 13, Offshore Sediments, was prepared and released to the public on April 1, 2004. Results of four offshore sediment investigations were used to conduct an ecological risk assessment, which concluded the offshore sediments at Site 13 do not pose an unacceptable risk to the environment. Following a public meeting that presented the no action alternative, a Record of Decision (ROD) was signed on April 17, 2005.

Bioremediation at Site 24 – Former Dry Cleaning Facility

A pilot study was implemented in April 2003 to test an innovative, biological method of groundwater cleanup using bacteria already in the soil to naturally degrade volatile organic compounds (VOCs) due to dry cleaning solvents. The pilot study is being conducted at Building 99 within Site 24 on TI. This bioremediation method has proven so successful in reducing the amount of solvents in the source area, the pilot study was expanded in February to include the lower-concentration plume downgradient. The RI/FS Report is currently being prepared.

Site 21 Treatability Study - Vessel Waste Oil Recovery Area

In 2005 a pilot study was implemented to test a biological method of groundwater cleanup. The study, similar to one done at Site 24, was used to degrade VOCs left from solvent spills in the dip tank area, which was used during former parts cleaning operations. The Navy is currently evaluating the pilot study results. The RI Report is being finalized.

Removal Action at Site 30 – Daycare Center

In 2002, a soil investigation identified various types of wastes including areas of buried burned debris associated with historical practices that contained copper, lead, and dioxins exceeding the site soil screening criteria. Based on these findings, the Navy completed a series of time-critical removal actions. Approximately 650 cubic yards of soil containing burned debris was removed from the areas north and south of 11th Street. The RI Report was finalized in February 2006. The Feasibility Study (FS) to evaluate remedial alternatives is currently being finalized.



Environmental Cleanup Accomplishments (continued) **Former Naval Station Treasure Island**

The Petroleum Program

The Navy has addressed 98 percent of the petroleum contamination at TI and YBI. The remaining 2 percent will be completed once the San Francisco-Oakland Bay Bridge project allows access to the sites.

The following is a brief overview of the Petroleum Program's cleanup activities:

- ✓ Over 13,000 linear feet of fuel distribution pipeline have been removed
- ✓ Over 750 linear feet of fuel distribution pipeline has been closed in place
- ✓ Over 50,000 tons of petroleum-contaminated soil have been excavated and replaced with clean fill
- ✓ 55 UST Closures for known, leaking and non-leaking tanks
- ✓ 11 UST Closures for suspected tanks (may have existed but were removed or previously abandoned)
- ✓ 16 UST Closures for previously-suspected tanks (once thought to have existed, but through research and investigation now believed to have never existed)
- ✓ 11 Fuel Pipeline Site Closures

Site Description Table

SITE DESCRIPTIONS CERCLA SITES	CONTAMINANTS OF POTENTIAL CONCERN	CURRENT SITE STATUS	
Site 1 Medical Clinic X-ray and photo processing laboratory was on site.	Silver	Site Closed March 20, 2002	
Site 2 Decontamination Training Area Area used for Navy radiation decontamination training from mid-50's to 1969.	Bromine-82 with a half life of 36 hours	Site Closed. NFA recommended in 1988 PA/SI report.	
Site 3 PCB Equipment Storage Area Area was used to store and repair transformers.	PCBs	Site Closed. March 20, 2002	
Site 5 Old Boiler Plant Provided steam heat to non-residential buildings.	Petroleum, Asbestos, VOCs, Mercury	Site Closed. CERCLA constituents merged into Site 24 and petroleum retained in the Petroleum Program by letter dated January 17, 2001.	
Site 6 Fire Training School Area used for Navy firefighting training for nearly 50 years.	Dioxins, petroleum fuel, and waste	RI report is being prepared.	
Site 7 Pesticide Storage Area Area was used to store pesticides, herbicides, and paint.	Metals, pesticides, and herbicides	Site Closed November 1, 2005	
Site 8 Army Point Sludge Disposal Area Area was used to dispose of sludge from the wastewater treatment plant for approximately 8 years.	PAHs	RI report for Sites 8, 28, and 29 is being prepared.	
Site 9 Foundry	Solvents, lead, and petroleum products	The PP and ROD are being prepared.	



SITE DESCRIPTIONS CERCLA SITES	CONTAMINANTS OF POTENTIAL CONCERN	CURRENT SITE STATUS	
Site 10 Bus Painting Shop Shop used for bus painting, paint mixing, storage of pest control solutions.	Pesticides and SVOCs	The PP and ROD are being prepared.	
Site 11 YBI Landfill Area was used as a landfill for various debris.	TPH, PAHs, VOCs, and metals	RI report is being prepared.	
Site 12 Old Bunker Area Area housed ammunition bunkers, former equipment storage areas, refuse areas and solid waste incineration areas; military housing construction and earthwork spread contaminants randomly in the subsurface across the site.	PCBs, PAHs, dioxins, arsenic, lead, and debris	Risk assessment work plan was finalized April 2006. RI report and EE/CA are being prepared.	
Site 13 Stormwater Outfalls/Offshore Sediments Stormwater system conveys water from surface and building drains to the Bay without treatment, and offshore sediments may be impacted from onshore sites.	Metals, PAHs, PCBs, DDT, and TPH	Site Closed. A No Action ROD signed April 17, 2005.	
Site 17 Tanks 103/104 Two 200,000-gallon aboveground storage tanks contained diesel.	Petroleum, oil, and lubricants	Site Closed. CERCLA constituents merged into Site 24 and petroleum retained in the Petroleum Program by letter dated January 17, 2001.	
Site 18 Asbestos-Covered Piping at YBI.	Asbestos	Site Closed.	
Abandoned steam piping was exposed due to a landslide in the early 1980's.		NFA recommended in PA/SI report.	
Abandoned steam piping was exposed due to a landslide in the early 1980's. Site 21 Vessel Waste Oil Recovery Area Area was used as an oil/water separator facility and for aircraft maintenance.	VOCs and TPH	RI Report is being finalized. Treatability Study operated September through October 2005, data collection and analysis conducted through February 2006.	
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Site 21 Vessel Waste Oil Recovery Area Area was used as an oil/water separator facility and for aircraft maintenance. Site 24 Dry Cleaning Facility Area was used as a laundry and dry cleaning facility for at least 35 years. Site 27 Clipper Cove Skeet Range	Petroleum, oil, lubricants, and chlorinated solvents	RI Report is being finalized. Treatability Study operated September through October 2005, data collection and analysis conducted through February 2006. Expansion of groundwater treatability study and full-scale treatment of plume began January 2005. RI and FS reports are being prepared. FS report is on hold while additional	
Site 21 Vessel Waste Oil Recovery Area Area was used as an oil/water separator facility and for aircraft maintenance. Site 24 Dry Cleaning Facility Area was used as a laundry and dry cleaning facility for at least 35 years. Site 27 Clipper Cove Skeet Range Skeet range was operated for 10 years from 1978 to 1987. Site 28 West Side On/Off Ramp	Petroleum, oil, lubricants, and chlorinated solvents Lead shot, lead, and PAHs	RI Report is being finalized. Treatability Study operated September through October 2005, data collection and analysis conducted through February 2006. Expansion of groundwater treatability study and full-scale treatment of plume began January 2005. RI and FS reports are being prepared. FS report is on hold while additional sediment investigation is planned. RI report for Sites 8, 28, and 29	



Site Description Table (continued) Former Naval Station Treasure Island

SITE DESCRIPTIONS CERCLA SITES (continued)

CONTAMINANTS **CONCERN**

STATUS

Site 31

Former South Storage Yard

Area appears in aerial photos to have been used as a storage yard during the 1970's.

PCBs, PAHs, TPH, lead, copper, DDT, and dioxins

RI report finalized July 2006. FS report is being prepared.

Site 32

Former Training and Storage Area

Area was used for hazardous materials storage area, for tear gas training area and storage, and contains a transformer pad.

PCBs, PAHs, TPH, dioxins, and pesticides

RI report is being prepared.

Site 33

Water Line Replacement Area

Area where debris was observed in water line trench during extensive historical repairs.

Dioxins and metals

RI report is being prepared.

SITE DESCRIPTIONS **PETROLEUM SITES**

Site 4/19

Hydraulic Training School/Refuse Transfer Area

Area housed 15 55-gallon drums of waste oil and fenced area used for the transfer, holding, and disposal of refuse for approximately 35 years.

CONCERN

OF POTENTIAL

CURRENT SITE

Petroleum, oil, and lubricants Site Closed.

Site 6

Fire Training School

Area used for Navy firefighting training for nearly 50 years.

Petroleum fuels and VOCs

Continued groundwater monitoring.

Site 14/22

New Fuel Farm/Navy Exchange Service Station

Area was the primary storage and distribution area for fuels for more than 50 years.

Petroleum, oil, lubricants, and VOCs

Site Closed.

Site 15

Old Fuel farm

Original fuel storage and distribution facility, much of which was moved to New Fuel Farm by 1945.

Petroleum, oil, and lubricants

Site Closed.

Site 16

Clipper Cove Tank Farm

Area stored aviation gasoline and automotive diesel for more than 20 years.

Petroleum, oil, and lubricants

Site Closed.

Site 20

Auto Hobby Shop/Transportation Center

Area has been used for steam cleaning and degreasing vehicles and for storage of hydraulic fluid and recycled oil.

Petroleum, oil, lubricants, and VOCs

Site Closed.

Site 23

YBI Pipeline Break

The pipeline carried oil from the fueling pier to storage tank 117 located on top of YBI.

Oil

Site Closed.

NFA recommended in PA/SI Report.



Site Description Table Former Naval Station Treasure Island

SITE DESCRIPTIONS PETROLEUM SITES (continued)

CONTAMINANTS OF POTENTIAL CONCERN

CURRENT SITE STATUS

Site 25

Seaplane Maintenance Area

Three areas used for storing and maintaining vehicles and seaplanes.

Petroleum, oil, and lubricants

Continued groundwater monitoring.

Pipeline Sites

Inactive fuel lines.

Petroleum

NFA concurrence letter for selected pipeline sites received from Water Board.

UST Sites

Underground storage tanks.

Petroleum

Various NFA concurrence and closure letters for selected USTs received from Water Board.

Notes:

DDT dichlorodiphenyltrichloroethane
DTSC Department of Toxic Substances Control
EE/CA Engineering Evaluation/Cost Analysis
FS Feasibility study

FS Feasibility study NFA No further action

PAH Polycyclic aromatic hydrocarbons

PA Preliminary Assessment
PCB Polychlorinated biphenyls
PCSR Post-construction summary report

PP Proposed Plan
RI Remedial investigation
ROD Record of Decision

SI Site investigation SVE Soil vapor extraction

SVOC Semivolatile organic compounds
TPH Total petroleum hydrocarbons
UST Underground storage tank
VOC Volatile organic compounds



Site Map Former Naval Station Treasure Island





Community Involvement Former Naval Station Treasure Island

The Navy believes it is important to make sure the local community has information about and input into the environmental program at NAVSTA TI. A brief summary of the Navy's community involvement activities is presented below.

RESTORATION ADVISORY BOARD

The NAVSTA TI Restoration Advisory Board (RAB) was created in January 1994. Originally NAVSTA TI had a technical review committee that consisted of the Navy and federal and state regulatory agencies. That technical review committee was converted to the RAB, and members of the community were invited to apply for membership. The RAB was established to allow community members of TI, YBI, and the larger San Francisco area to have input into the investigation and cleanup process. The RAB provides a forum that enables community members, the military, and regulatory agencies to work together to openly discuss and exchange information about the Navy's environmental cleanup activities. RAB members meet every other month

to review technical documents and discuss activities related to the IR Program. The RAB is an advisory body and RAB members do not make decisions about the cleanup process. However, the concerns and comments expressed through the RAB are carefully considered by the Navy and regulators and help to frame a sound cleanup approach. If you would like to become a RAB member or attend a RAB meeting, see the back of this page for details.

RAB FACTS:

Number of years the RAB has been running: Over 10 years, beginning July 1994 Number of RAB meetings: 125 as of August 2006

MAILING LIST

The NAVSTA TI mailing list has over 1,100 names, including residents of TI and YBI, businesses on TI, elected officials, community groups, and media contacts.

NEWSLETTER

The Navy publishes a semiannual newsletter, the Island Times, to provide up-to-date information on investigation and cleanup activities at TI and YBI. Copies of the newsletter can be found on the Navy's NAVSTA TI website. The Navy has published eleven newsletters from summer 2001 through spring 2006.

WEBSITE

The Navy's NAVSTA TI website can be found at:

www.bracpmo.navy.mil/bracbases/california/treasure_island

The website contains information such as fact sheets; flyers and notices; copies of the base newsletters; documents; information on the RAB including applications and meeting minutes, and a general history of the base.

COMMUNITY RELATIONS PLAN

The Navy updated the Community Relations Plan for NAVSTA TI in June 2002 and outlines all public involvement regulatory requirements for the IR Program. The Community Relations Plan includes the following information:

- Describes the TI/YBI community as well as the San Francisco community,
- Highlights past community outreach conducted at NAVSTA TI,
- Identifies the current level of community interest or concern about environmental issues at NAVSTA TI, and
- Outlines planned public participation activities.

The Navy completed another update to the Community Relations Plan in July 2006. This update includes current contact information and environemntal site status information. It can be found in the information repositories.



Community Participation Information Former Naval Station Treasure Island

If you would like more information on the Naval Station (NAVSTA) Treasure Island (TI) Installation Restoration (IR) Program or the Restoration Advisory Board (RAB), or if you would like to be added to our mailing list, please contact:

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PARTNERS IN THE CLEANUP

The Base Realignment and Closure (BRAC) Cleanup Team (BCT) is comprised of the Department of the Navy, U.S. Environmental Protection Agency (EPA), California EPA Department of Toxic Substances Control (DTSC), and the California EPA Regional Water Quality Control Board (Water Board). The primary goals of the BCT are to protect human health and the environment, coordinate environmental investigations, and expedite the environmental cleanup at NAVSTA TI.

Mr. Richard Perry

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JOIN THE RESTORATION ADVISORY BOARD

The RAB is composed of members of the community who work with the Navy and regulatory agencies to provide input on the environmental restoration of former NAVSTA TI. The RAB provides a forum to give interested community members the opportunity to revew progress, participate in a dialog with BCT members, and review and comment on ducuments prepard for the Environmental Cleanup Program. Meetings are held on alternate months to discuss the IR Program's progress. It is a great opportunity to find out what is going on and to have your voice heard. RAB meetings are held from 7:00 p.m. to 8:30 p.m. on the third Tuesday of every alternate month and are open to everyone. Stop by! For more information, see the website at:

www.bracpmo.navy.mil/bracbases/ california/treasure_island

INFORMATION REPOSITORY AND ADMINISTRATIVE RECORD

Two local Information Repositories have been established to facilitate community access to key technical documents. The repositories contain program-related documents, including technical reports, fact sheets, newsletters, RAB meeting minutes, the Community Relations Plan, and an annotated index. The administrative record contains all information that has been or will be used to make cleanup decisions and includes comments by the public and regulatory agencies, as well as Navy responses. The documents are available for public review at the Information Repositories and the Administrative Records Office located at:

Navy Southwest Detachment

410 Palm Avenue, Building 1, Room 161Treasure Island, San Francisco, California Phone: (415) 743-4704

Monday - Friday: 9:30 a.m. to 4:30 p.m.

San Francisco Public Library, Government Publications Section

100 Larkin Street, San Francisco, California (415) 557-4400 Call for hours

Ms. Diane Silva

CERCLA Administrative Records Coordinator Administrative Records Office, Code: ENV.DS Naval Facilities Engineering Command, Southwest Division 1220 Pacific Highway, San Diego, California 92132 Phone: (619) 532-3676

Monday - Friday: 7:30 a.m. to 3:30 p.m.

NAVSTA TI MAILING COUPON

If you would like to be added to the TI/YBI mailing list and receive copies of future newsletters and fact sheets, please fill out the coupon below and mail it to:

James Sullivan
Navy BRAC Program Management Office West
410 Palm Avenue
Building 1, Room 161
Treasure Island, San Francisco, CA 94130-1806

Name			
Address			
City	State	Zip	
E-mail Address			
ADD MY NAME TO THE MAILING LI	ST DELET	TE MY NAME FROM THE I	MAILING LIST
		0 /	



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